

What Is Claimed Is:

1. A method for repressing weight gain or reducing weight in a male patient, comprising administering (+)-Z-bisdehydrodoisynolic acid in a dosage effective to repress weight gain or reduce weight to a male patient suffering from, or disposed to, weight gain.

2. The method of claim 1, wherein said dosage is in the range of from about 0.1 µg/kg/day to about 100 mg/kg/day.

3. A method for treating or preventing a disease, condition, or symptom selected from the group consisting of prostatic disease, peri- or post-menopausal symptoms, an estrogen-responsive condition that no longer responds to treatment with conventional steroidal estrogens, an estrogen-responsive uterine cancer, breast cancer, ovarian follicle atresia, a disease or condition caused or prolonged by free radicals, cardiovascular disease, hyperlipidemia, hypercholesterolemia, hyperglycemia, Alzheimer's disease and pattern baldness, comprising administering an estrogenic carboxylic acid in a dosage effective to treat or prevent said disease, symptom, or condition to a patient suffering from, or disposed to, said disease, symptom, or condition.

4. The method of claim 3, wherein said estrogenic carboxylic acid is selected from the group consisting of a doisynolic acid, an allenolic acid, a phenylcyclohexenecarboxylic acid, a hydroxyphenylcyclohexenecarboxylic acid, a phenylcyclohexanecarboxylic acid, a hydroxyphenylcyclohexanecarboxylic acid, a hydroxytetrahydroanthracenecarboxylic acid, and a tetrahydroanthracenecarboxylic acid.

5. The method of claim 4, wherein said estrogenic carboxylic acid is selected from the group consisting of (+)-doisynolic acid, (-)-Z-bisdehydro-doisynolic acid, (+)-Z-bisdehydrodoisynolic acid, (±)-Z-bisdehydrodoisynolic acid, (-)-allenolic acid, (+)-allenolic acid, 1-(p-hydroxyphenyl)-6-ethyl-5-methylcyclohexene-4-carboxylic acid, 1-(p-hydroxyphenyl)-2-ethyl-3-methylcyclohexene-4-carboxylic acid, 1-(p-hydroxyphenyl)-2-ethyl-3,5,5-trimethylcyclohexene-4-carboxylic acid, 4-(p-hydroxyphenyl)-2,2,6,6-

10 tetramethylcyclohexanecarboxylic acid, 1-ethyl-6-hydroxy-2-methyl-1,2,3,4-tetrahydroanthracene-2-carboxylic acid, 1-phenyl-2-ethyl-3-methylcyclohexene-4-carboxylic acid, and 1-phenyl-5,6-dimethylcyclohexene-4-carboxylic acid, or a pharmaceutically acceptable salt, ester, or anhydride thereof.

6. The method of claim 5, wherein said estrogenic carboxylic acid is selected from the group consisting of (-)-Z-bisdehydrodoisynolic acid, (+)-Z-bisdehydrodoisynolic acid, and (±)-Z-bisdehydrodoisynolic acid.

7. The method of claim 3, wherein said dosage is in the range of from about 0.1 µg/kg/day to about 100 mg/kg/day.

5 8. A method for treating or preventing osteoporosis comprising administering an estrogenic carboxylic acid selected from the group consisting of a doisynolic acid, a phenylcyclohexenecarboxylic acid, a hydroxyphenylcyclohexenecarboxylic acid, a phenylcyclohexanecarboxylic acid, a hydroxyphenylcyclohexanecarboxylic acid, a hydroxytetrahydroanthracenecarboxylic acid, and a tetrahydroanthracenecarboxylic acid in a dosage effective to treat or prevent osteoporosis to a male or female patient suffering from, or disposed to, osteoporosis.

5 9. The method of claim 8 wherein said estrogenic carboxylic acid is selected from the group consisting of (+)-doisynolic acid, (-)-Z-bisdehydro-doisynolic acid, (+)-Z-bisdehydrodoisynolic acid, (±)-Z-bisdehydrodoisynolic acid, 1-(*p*-hydroxyphenyl)-6-ethyl-5-methylcyclohexene-4-carboxylic acid, 1-(*p*-hydroxyphenyl)-2-ethyl-3-methylcyclohexene-4-carboxylic acid, 1-(*p*-hydroxyphenyl)-2-ethyl-3,5,5-trimethylcyclohexene-4-carboxylic acid, 4-(*p*-hydroxyphenyl)-2,2,6,6-tetramethylcyclohexanecarboxylic acid, 1-ethyl-6-hydroxy-2-methyl-1,2,3,4-tetrahydroanthracene-2-carboxylic acid, 1-phenyl-2-ethyl-3-methylcyclohexene-4-carboxylic acid, and 1-phenyl-5,6-dimethylcyclohexene-4-carboxylic acid, or a pharmaceutically acceptable salt, ester, or anhydride thereof.

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10. The method of claim 9, wherein said estrogenic carboxylic acid is selected from the group consisting of (-)-Z-bisdehydrodoisynolic acid, (+)-Z-bisdehydrodoisynolic acid, and (±)-Z-bisdehydrodoisynolic acid.

11. The method of claim 8, wherein said dosage is in the range of from about 0.1 µg/kg/day to about 100 mg/kg/day.